ABSTRACT OF THE DISCLOSURE

Process for the preparation of urea granules in a fluid-bed granulator, by using at least one feeding device to feed a urea melt in the form of a film to a fluidized bed of solid urea nuclei, upon which the nuclei grow by solidification of the urea melt on the nuclei, in which the amounts of biuret and water in the urea melt and in the urea granules fulfill the following relation

$$\frac{b_m \cdot b_g}{w_m \cdot (w_m - w_g)} = 0.1\text{-}20$$

wherein

b_m = the % by weight of biuret in the urea melt

b_g = the % by weight of biuret in the urea granules

w_m = the % by weight of water in the urea melt

w_g = the % by weight of water in the urea granules.

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